

Type 1 Facility Closeout Report

Section A. Facility Data

Facility No. 517/518, 520, 681 and Excel/ring-bus switchgear
 Facility Descriptor: Transformer substations
 Project: RISS
 Date of Demolition: June 2005 and July 2005
 Additional Information: Attached

(Must include information on environmental releases and conditions of site at turnover to Environmental Restoration)

Section B. Final Characterization Data

Reconnaissance Level Characterization Report (concurrency received) RLCR for 520 - Concurrence, Steven H. Gunderson to Richard DiSalvo, dated July 30, 2003.
 RLCR for 681 - Concurrence, Steven H. Gunderson to Richard DiSalvo, dated March 21, 2003.

In-process Characterization N/A
 Pre-Demolition Survey Report (approval received) RLC functioned as PDS
 Post-Demolition Survey Report (as necessary) N/A

Section C. Waste Data (complete categories as appropriate)**Sanitary Disposal**

Disposal Site: BFI Foothills Hwy 93 Landfill
 Waste Volume (m³): 5657.7
 Waste Weight (tons): 4552.62
 Additional Information: Waste included concrete, metal, and transformer carcasses.

Hazardous Disposal

Disposal Site: Kettleman Hills Facility, Kettleman City, CA
 Waste Weight (tons): 19.5
 Additional Information: Switch gears - non-hazardous, but sent to Kettleman due to compressed sulfur hexafluoride.

TSCA Waste Disposal (other than ACM)

Disposal Site: Kettleman Hills Facility, Kettleman City, CA
 Waste Weight (tons): 3
 Additional Information: Bushings - contained potential PCB mineral oil

Asbestos Waste Disposal

Additional Information: NA
 No asbestos was generated

Low-Level Waste Disposal

Additional Information: NA
 No LLW was generated

Low-Level Mixed Waste Disposal

Additional Information: NA
 No LLMW was generated

Recycled Material

Disposal Site: Used Oil
 Safety-Kleen Oil Recovery Co., East Chicago, IN
 Waste Volume (gals.) 24,335
 Additional Information: Used oil for recovery

Property Disposition

Receiver Locations (major items only): PU&D for resale
 Additional Information: Five lbs. of recovered R22 freon.

Section D. Approvals

Kaiser-Hill Project Manager

Jerry D. Cable
 Name/Signature

8/9/05
 Date

ADMIN RECORD

Physical Description:

Building 520 was a 1020 square foot single-story switchgear building. The structure is a cinderblock building constructed on a concrete pad. The roof was a metal roof with built-up insulation. The 517 and 518 transformers associated with this building were drained of oil, the bushings removed, and demolished with the building.

Building 681 was a 2302 square foot switchgear building. Building 681 was a cinderblock building constructed on a concrete pad. The roof was a metal roof with built-up insulation. The two transformers associated with Building 681 were drained of transformer oil, the bushings removed, and demolished with the building.

The both facilities had the following utilities: electric and fire protection provided by wall mounted fire extinguishers.

The ring-bus in the north buffer zone had transformers and switchgear, which were owned by Xcel Energy until June 2005, when this facility was turned over by Xcel to DOE for removal. The facility was released under a WRE.

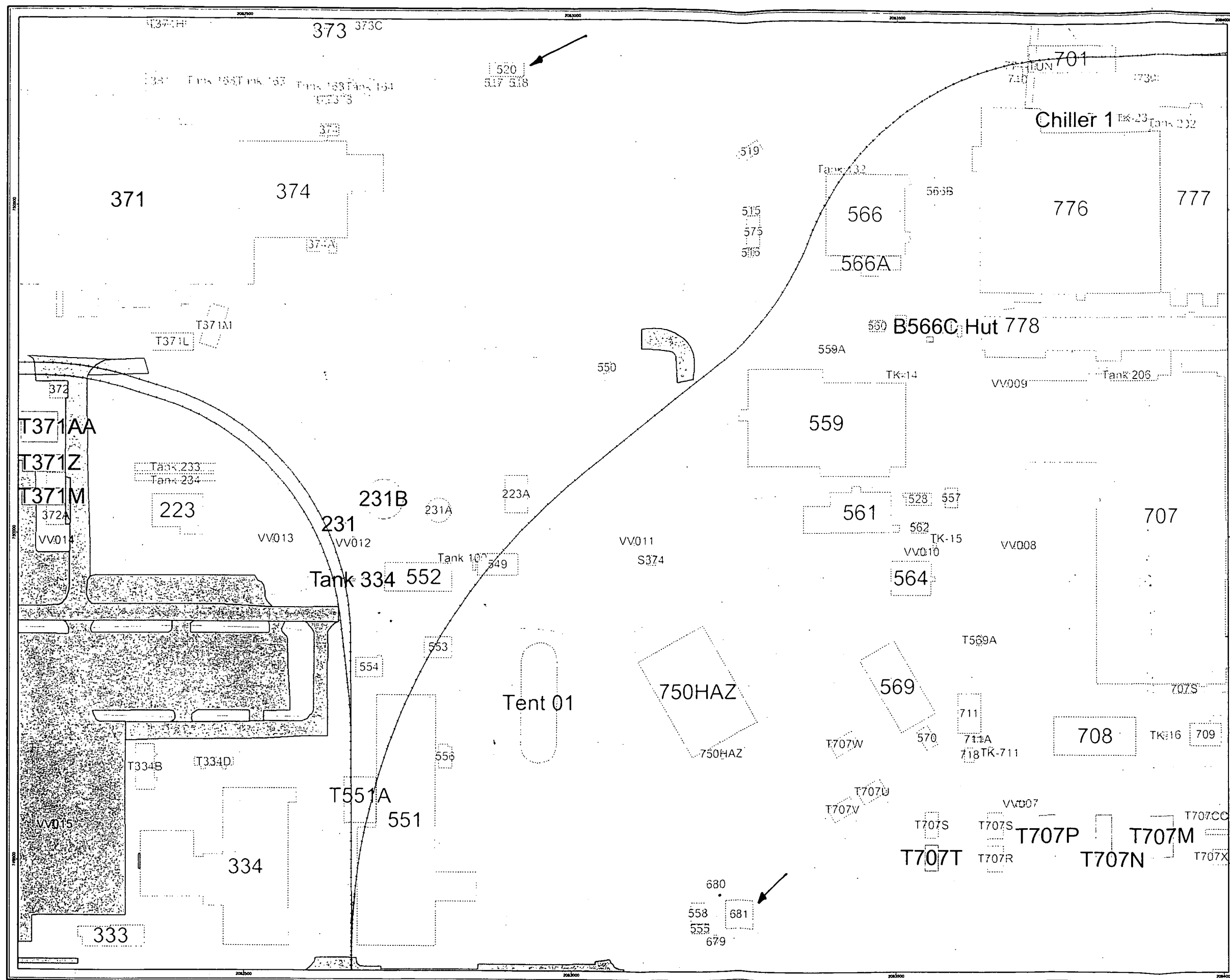
Utilities:

The only utilities to these facilities were electrical. All electrical lines and poles were removed during demolition of the facilities.

There were two 6' perforated pipes that drained a catch basin northwest of B520, designed to drain the substation yard. One pipe ran due east (20 ft north of B520), toward the 6th St ditch bank where it turns at a 45 degree angle to the northeast. This pipe was located due north of the northeast corner of B520 and removed easterly to the 45 angle. The pipe and bedding was flowfilled from the point of removal.

The second pipe ran due south (30 ft west of B520) toward the 6th St ditch. This pipe was located due west of the southwest corner of B520 and removed entirely to the south. The pipe and bedding was flowfilled from the point of removal.

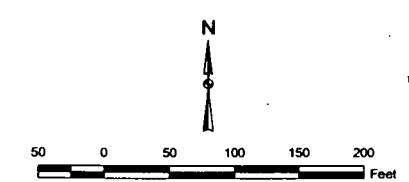
A 4" cast iron pipe drained the 13.8kV electric manhole northwest of B520. This pipe ran parallel to the first pipe mentioned above and was removed and flowfilled in a similar manner. The manhole and catch basin were removed to 4' below existing grade, and the void was filled with soil. Any remaining structures are 25' below final grade.



Building 575, 515, 516, 520, 517, 518 and 681 Location Map

Standard Map Features

- Demolished Facility
- Remaining Facility
- Dirt Roads
- Railroad Removed
- Railroad Remaining
- Stream or Ditch
- Lakes and Ponds



State Plane Coordinate Projection
Colorado Central Zone (3476)
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared By:

CH2MHILL
GIS DEPT. (303) 966-7707

Prepared For:

KAISER HILL
COMPANY

DATE: 8/8/2005

PATH: IGiss\GIS\Projects\F200505-0480\Building 575, 515, 516, 520, 517, 518 and 681 Location Map.mxd

☐ Property
 ☒ Waste
 ☐ Sample

RELEASE EVALUATION FORM

Page 1 of 2

Release Evaluation No.: 0505178-T130F-001 EXTENDED: No EXPIRES: N/A Charge No.: EBB120EL
 PART I SENDER/CUSTODIAN ACKNOWLEDGEMENT

Description of Property/Waste/Sample To Be Released/Transferred: Construction debris from the removal/demolition of the 115KV power transmission facilities and associated equipment including power lines, insulators, power poles (wood and metal), metal towers, guys, associated structures, concrete slabs and foundations, asphalt, larger circuit breakers (some oil filled), large transformers (with some residual oil), fence, miscellaneous metals, conduit, wire, and cable. Construction debris from the control building with switch gear, and culvert at the ring buss switching station north of the site identified in IWCP T0113171.

Current Location: Building 681 area north to through the former Industrial Area to the buffer zone and northeast to Indiana Avenue

Destination: Front Range Landfill, 1830 Weld County Road 5, Erie, CO, 80112 or BFI landfill, 88th and Tower Road, Commerce City, Colorado or Foothills Landfill, Highway 93, Golden Co.

New Recipient/Custodian: Same as above

History/Process Knowledge: There is no history of radiological operations associated with the 115KV power transmission facilities and associated equipment.

Has the specified material ever been in an RBA/CA or contacted DOE controlled radioactive materials? No

1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate.

2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation.

Sender/Custodian: Steve Mager / *Steve Mager* Emp. No: [REDACTED] Date: 5/19/05 Ext: 5624

PART II

RADIOLOGICAL ENGINEERING

SPECIFIC REQUIREMENTS AND/OR COMMENTS:

115KV power transmission facilities and associated equipment and the immediate surrounding areas were never posted CA/RBA. There is no history of radiological contamination associated with these areas. *Radiological characterization is required ONLY on 15% of the below ground portions of the 6 marked power poles located inside the former Industrial Area north of B681 prior to demolition and release.*

- 1.) Custodian, ensure that all soil is removed from the collected waste upon demolition, prior to waste disposal. If indicated waste/soil is to remain at the applicable current locations, this statement may be disregarded. This release evaluation does not address the removal of soil from the site. Custodian is responsible for ensuring this requirement is met.
- 2.) Custodian, retain a copy of all documents required by this release evaluation. The sender/custodian will be responsible for ensuring a copy of this release evaluation is available for auditing/due diligence purposes.
- 3.) Radiological Engineer, process release evaluation to indicate an unrestricted free-release. Sign all appropriate documentation required for the disposition of the affected items.

Evaluated: Roger Worrick / *Roger Worrick* Emp. No: [REDACTED] Date: 5/19/05 Ext: 3357
 Radiological Engineer

APPROVAL FOR TRANSFER/SHIPMENT

Approved: Chad Blake / *Chad Blake* Emp. No: [REDACTED] Date: 5/19/05 Ext: 5909
 Radiological Engineer

PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS**Release Evaluation for Waste:**

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

Release Evaluation for Property:

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature. For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE. In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history.

Release Evaluation for Samples:

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."

Additional Documentation:

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page ___ of ___, initials of Radiological Engineer signing approval for transfer/shipment and date.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg. <u>Eberline</u>	Mfg. <u>NA</u>	Mfg. <u>NE Electra</u>
Model <u>SAC-4</u>	Model <u> </u>	Model <u>DP-6</u>
Serial # <u>818</u>	Serial # <u> </u>	Serial # <u>2314</u>
Cal Due <u>7/12/05</u>	Cal Due <u> </u>	Cal Due <u>7/19/05</u>
Bkg. <u>0.2 cpm α</u>	Bkg. <u> </u>	Bkg. <u>4 cpm α</u>
Efficiency <u>33.0 %</u>	Efficiency <u>▼</u>	Efficiency <u>17.0 %</u>
MDA <u>20 dpm α</u>	MDA <u>NA</u>	MDA <u>94 dpm α</u>

Mfg. <u>Eberline</u>	Mfg. <u>NA</u>	Mfg. <u>NE Electra</u>
Model <u>BC-4</u>	Model <u> </u>	Model <u>DP-6</u>
Serial # <u>910</u>	Serial # <u> </u>	Serial # <u>2314</u>
Cal Due <u>10/28/05</u>	Cal Due <u> </u>	Cal Due <u>7/19/05</u>
Bkg. <u>36.4 cpm β</u>	Bkg. <u> </u>	Bkg. <u>370 cpm β</u>
Efficiency <u>14.0 %</u>	Efficiency <u>▼</u>	Efficiency <u>22.0 %</u>
MDA <u>258 dpm β</u>	MDA <u>NA</u>	MDA <u>745 dpm β</u>

Survey type: Contamination

Building: N/A

Location: Sectors 4C / 4E

Purpose: Removal

RWP #: NA

Date: 6/9/05 Time: 8:00

RCT: S. Cloud 1 S. Cloud

Print name Signature

RCT: NA / NA / NA

Print name Signature Emp. #

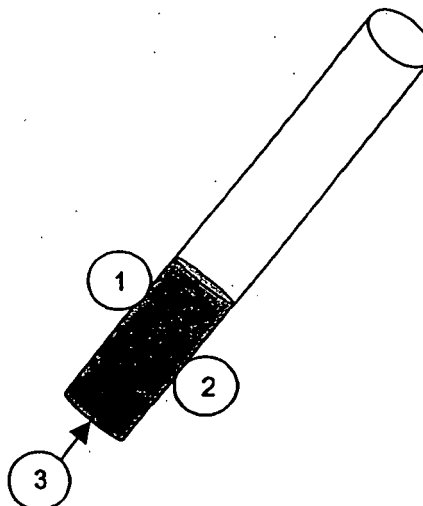
PRN/REN # :

Comments: Scan Survey of 15% of Power Poles of end that was in the ground. All readings < MDA of instruments listed above.

SURVEY RESULTS

Swipe #	Location/Description	DPM/100 cm ²			
		Removable		Direct	
		Alpha	Beta	Alpha	Beta
1	Side	<20	<258	<94	<745
2	Side	<20	<258	<94	<745
3	Bottom	<20	<258	<94	<745
4	N/A	N/A	N/A	N/A	N/A
5					
6					
7					
8					
9					
10					
11					
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16					
17					
18					
19					
20					

6 Power Poles



Date Reviewed: 6/9/05

RS Supervision: S. Mader

Print Name

Signature

